NOTE

The simultaneous effect of the Rayleigh scattering absorption and of the $O_2$ and $O_3$ absorption on the atmospheric transmittance

$$T = \exp \left[ -\tau_{RS} + \tau_{O_2} + \tau_{O_3} \right]$$

$$= \exp \left[ -\sigma_{RS} N(M) + \sigma_{O_2} N(O_2) + \sigma_{O_3} N(O_3) \right]$$

can be written ($\tau$, optical depth, $\sigma$, absorption cross section and $N$, molecules cm$^{-2}$)

$$T = \exp \left[ (4.8 \sigma_{RS} + \sigma_{O_2}) N(O_2) + \sigma_{O_3} N(O_3) \right]$$

The "cross section ($O_3$)" in the last column of Table I and II correspond to $4.8 \sigma_{RS}$ and leads to a direct comparison (in the homosphere) of the scattering absorption and molecular oxygen absorption using $N(O_2)$ as the parameter.